

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

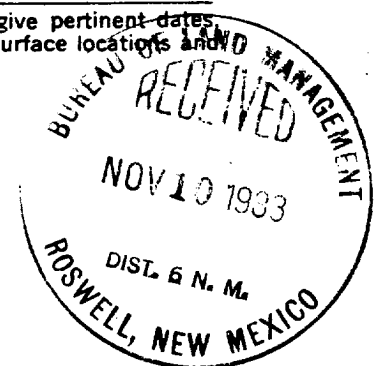
1. oil ☐ well ☐ gas ☐ well ☐ other **WATER INJECTION**
2. NAME OF OPERATOR
CONOCO INC.
3. ADDRESS OF OPERATOR
P. O. Box 460, Hobbs, N.M. 88240
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: **50' FNL + 2635' FWL**
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- | REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: | |
|--------------------------|-------------------------------------|-----------------------|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | | <input type="checkbox"/> |
| REPAIR WELL | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | | <input type="checkbox"/> |
| ABANDON* | <input type="checkbox"/> | | <input type="checkbox"/> |
| (other) | | | |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLEASE SEE ATTACHED PROCEDURE.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED David R. Glass TITLE Administrative Supervisor DATE 11/9/83

(ORIG. SGD.) DAVID R. GLASS

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL ANY _____

DEC 1 1983

MCA UNIT NO. 106
REPAIR BAD CASING

LOCATION: 50' FNL & 2365' FWL, Section 30, T17S-R32E, Lea County, NM
ELEVATION: 3920' TD: 3975' P.B.T.D.: 3972' MEASURING DATUM: "0" AGL
TOP OF SALT: 820' BASE OF SALT: 1805' SCALE BUILDUP: NR
TOP OF 6TH ZONE: 3832' JUNK IN HOLE: NR EST. T.O.C.: 2307'
COMPLETION: OH - Shot 3614 - 3685 w/140 qts
CASING: Surface: 10-1/4", 40# csg @ 69' w/50 sxs
Production: 7", 20# csg @ 3557' w/250 sxs

RECOMMENDED PROCEDURE:

1. Backflow well until well can be pulled safely.
2. Rig up pulling unit.
 - A. Nipple up B.O.P.
 - B. POOH with 1200' of injection tubing.
3. Prepare csg shoe for cement squeeze.
 - A. GIH w/6-1/4" bit, 7" csg scraper and 2-7/8" workstring. Scrape csg from surface to 3550'.

NOTE: Do not go below 3557' with csg scraper, you might not get back out. Strap tbg in the hole.

- B. POOH w/2-7/8" workstring, 7" csg scraper and 6-1/4" bit.
- C. GIH w/2-7/8" workstring open ended. Tag for fill. Fill OH section with crushed oyster shells to 3572'. Approximate OH volume if no fill exists 72 sxs.

NOTE: Circulate through tbg when running open ended and tagging to prevent plugging of tbg.

- D. Tag top of oyster shells to determine that oyster shells are at 3572. With dump bailer, spot 50 lbs Cal-Seal on top of oyster shells.
- E. GIH w/7" 20 lb squeeze packer and 2-7/8" workstring. Set packer @ 3470'. Load backside w/TFW w/1 gal Adomall/1000 gals water. Pressure up backside to 500 psi.

NOTE: Strap tbg in hole.

NOTE: Pressure test tbg into hole above slips to 4000 psi.

4. Cement squeeze the 7" 20 lb csg shoe as follows:
 - A. Establish a pump rate of 2 BPM @ 2500 psi with 25 bbls fresh water (tbg volume is 20.5 bbls).
 - B. Pump 50 sxs of thixotropic cement @ a maximum surface pressure of 2500 psi (see cement detail attached).
 - C. Flush tbg volume w/23 bbls fresh water.
 - D. W.O.C. 24 hrs.
 - E. POOH w/2-7/8" workstring and squeeze packer.

NOTE: If you catch pressure and cannot complete the squeeze, release the squeeze packer and reverse out cement w/fresh water. Set squeeze packer and pressure up on the interval to 2000 psi surface pressure. Casing OH volume below packer is approximately 4 bbls.

Estimated pump time @ 1 BPM: 42 minutes total job.

NOTE: Have thixotropic mixture tested for pump time using Maljamar fresh water before doing job.

Cement Detail (Base Cement Class A)					
Thixotropic Cement					
Water gal/sx	Cal-Seal lb/sx	Bentonite %	CaCl ₂ %	Slurry Weight lb/gal	Slurry Volume Ft ³ /sx
5.2	10	0	1	15.9	1.24

5. Prepare OH to run csg.

- A. GIH w/6-1/4" fishtail bit, DC's and 2-7/8" workstring.
- B. Drill out cement and oyster shells to 3604'. POOH.
- C. GIH w/dump bailer, tag top of oyster shells @ 3604', and spot 50 lbs of Cal-Seal on top of oyster shells. POOH.

6. Run and cement to surface, 3600 ft of 5" 13.00 lb ST&C K-55 csg.

- A. Make up guide shoe on bottom of 5" 13.00 lb ST&C K-55 csg. Run one jt of 5" 13.00 lb K-55 csg and make up float collar (thread lock compound should be used on guide shoe and threads between float collar). Run a centralizer every 500' starting at the float collar connection.
- B. Tag top of oyster shells and raise csg approximately 2'.

NOTE: 5" 13.00 lb ST&C recommended make up torque.

Minimum	Optimum	Maximum
ft/lb	ft/lb	ft/lb
1400	1860	2330

7. Cement the 5" 13 lb K-55 to surface @ 2.5 BPM and a maximum surface pressure of 2500 psi as follows:

NOTE: 2.5 BPM is 155 ft/min annular velocity.

NOTE: Reciprocate production csg while cementing.

NOTE: Weight of csg in air 46,800 lbs.

NOTE: Estimated maximum pickup weight while cementing to reciprocate pipe 75,252 lbs.

- A. Lead in with 20 bbls fresh water spacer.
- B. With plug container, drop bottom plug.
- C. Pump 277 sxs of Class "C" cement with 2% CaCl₂.
- D. Drop top plug and displace it with fresh water. Approximated displacement volumes 70 bbls.
- E. SI and W.O.C. 24 hrs.

NOTE: 277 sxs is 10% excess of csg--csg annular volume and csg--OH annular volume.

RECEIVED
DEC 5 1982
O.C.D.
HOBBS OFFICE

Water Requirements	Cement Detail	
	Class C Cement	Slurry Volume
Gal/sk	Slurry Weight	Ft ³ /sx
	Lbs/gal	
6.3	14.8	1.32

8. C.O. to T.D. of 3972'.
 - A. GIH w/4-1/4" fishtail bit, D.C.'s and 2-3/8" workstring.
 - B. Drill out cement to 3595' and test csg to 1000 psi for 15 minutes.
 - C. Drill out cement and oyster shells to 3972'.
 - D. POOH w/workstring, D.C.'s and 4-1/4" bit.
9. Acidize the Grayburg - San Andres section @ 2 BPM and 2500 psi maximum surface pressure as follows:
 - A. GIH with 5" 13 lb treating packer and workstring set treating packer @ 3550'. Load backside and pressure up to 500 psi. Test tbg above slips to 4000 psi.
 - B. Pump 840 gallons (20 bbls) 15% HCl-NE-FE (inhibit acid for 24 hrs @ 90°F).
 - C. Pump 350 lbs of graded rock salt mixed in 5.5 bbls 10 PPG brine water with 10 lbs guar gum (2 hour breaker).
 - D. Pump 840 gallons 15% NE-FE-HCl (inhibited for 24 hrs at 90°F).
 - E. Flush with 15 bbls TFW w/2% KCL and 1 gallon Adomall/1000 gallons water.
 - F. SION.
 - G. POOH w/workstring and treating packer.
10. Return MCA Unit No. 106 to injection @ a surface injection pressure of 2000 psi and estimated rate of 340 BWPD.
 - A. GIH w/5" 13 lb injection packer and 2-3/8" plastic coated tbg.
 - B. Circulate approximately 60 bbls packer fluid and set injection packer @ 3500' w/12 pts tension.
 - C. Return MCA Unit 106 to injection and monitor well for communications. Report rates and injection pressures each month.